

Topcon CR-S2

Capture reality with unmatched speed and flexibility.



Work faster and smarter with portable,
high-performance 3D scanning.
One-person operation and reliable data,
anywhere you need.

Learn more at topconpositioning.com





How do you accelerate your reality capture projects?

Professionals in surveying, construction, engineering, and geospatial fields are often tasked with capturing spatial data for applications such as topographic mapping, infrastructure assessment, underground space measurement, and accident investigation. These jobs frequently present challenges like featureless environments, restricted access, urgent timeframes, and complex data needs.

The Topcon CR-S2 addresses these challenges with multi-sensor fusion, combining MLF-SLAM (multiple localization fusion-SLAM), VSLAM (visual SLAM), and RTK-SLAM technologies. This integrated approach delivers stable, centimeter-level accuracy - even in areas where GNSS signals are weak or unavailable - by leveraging LiDAR, visual, IMU, and RTK data. High-fidelity point clouds and real-time colorized imaging ensure actionable results in a single workflow, minimizing return visits and rework.

- » Capture data on the move with a truly portable solution.
- » Simplify your workflow from field capture to final processing.
- » Achieve survey-grade accuracy without the need for extensive setup.
- » Scan diverse environments, from dense forests to urban canyons.
- » Integrate seamlessly with Topcon software for a complete solution.



- 1 GNSS
- 2 LiDar
- 3 4x Cameras
- 4 Quick-swappable battery
- 5 Easy GCP collection

Portable, Powerful, and Built for Speed

The CR-S2 solution provides immediate value through its portable design, one-person operation, and seamless multi-format data output. Real-time mesh + panoramic capture and exportable earthwork calculations enable faster project delivery and support a wide range of customer needs, from stockpile measurement to large-scale 3D modeling.



Seamless Workflow, Precise Results

Unlike conventional solutions that require multiple devices or post-processing steps, the CR-S2 delivers an end-to-end workflow - data collection, processing, and delivery - powered by advanced fusion algorithms and robust hardware. This not only accelerates fieldwork but also ensures consistent, survey-grade results across every project.

Field and Desktop Software



MAGNET®
Flow

- Collection control software, compatible with both Android and iOS platforms.
- Supports collection control, project management, real-time point cloud browsing, and firmware upgrades, etc.



MAGNET®
Bridge

- SLAM Data Processing workflow with continuous improvement in algorithms and data quality.
- Length, area and volume calculations for quick evaluations.
- Orthophoto creation to provide true-scale imagery.



The CR-S2 is more than just a scanner; it's a tool built for the modern professional who demands both performance and practicality.

Get the data you need, when you need it.
Contact your local Topcon dealer to learn more.

Specifications subject to change without notice.
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